

IN THE CLAIMS

1-30. (cancelled)

31. (withdrawn) A receiving apparatus for receiving a digital broadcasting signal constructed by a transport stream in which video data and audio data have been compressed and multiplexed, comprising:

a decoder for decoding said received digital broadcasting signal;

a digital interface for receiving a transport stream from an external reproducing apparatus having both analog and digital recording and reproducing modes;

a format converter circuit for outputting the decoded broadcasting signal from said receiving apparatus in a format for display on a monitor to a user; and

a display processing circuit for displaying control panel information for allowing station selection and recording and reproduction control of a program recorded on a recording medium loaded in said external reproducing apparatus by a predetermined format,

wherein when said external recording apparatus is in the analog reproducing mode, said display processing circuit prevents said format converter circuit from outputting the decoded broadcasting signal to the user, and when said external recording apparatus is in the analog recording mode, said display processing circuit prevents said format converter circuit from outputting the decoded broadcasting signal from said format converter circuit only during the displaying of said control panel information; and

wherein when said external recording apparatus is in the digital recording mode, said format converter circuit displays the

decoded broadcasting signal whether or not the control panel information is displayed.

32. (withdrawn) An apparatus according to claim 31, wherein an alarm message is displayed to the user when said display processing circuit prevents the display of the received digital broadcasting signal to the user.

33. (withdrawn) An apparatus according to claim 32, wherein said alarm message indicates that said external recording apparatus is under analog reproduction and that the digital broadcasting signal cannot be displayed.

34. (withdrawn) An apparatus according to claim 31, wherein the analog recording mode includes a stop mode, a recording pause mode and record mode.

35. (withdrawn) A display method of a receiving apparatus of a digital broadcasting, comprising:

receiving in the receiving apparatus a digital broadcasting signal constructed by a transport stream in which video data and audio data have been compressed and multiplexed;

decoding in the receiving apparatus said received digital broadcasting signal;

receiving in the receiving apparatus a transport stream from an external reproducing apparatus through a digital interface, the external reproducing apparatus having both analog and digital recording and reproducing modes;

displaying an alarm message during a recording mode of the external reproducing apparatus indicating that a new station of the

digital broadcasting signal cannot be selected during display of a control panel normally allowing a user to select a new station, during (i) digital recording, and (ii) analog recording modes of stop, recording pause and record, by the external reproducing apparatus; and

displaying an alarm message upon attempted reproduction from the external recording apparatus, through the receiving apparatus, of a program recorded in the analog mode when the external reproducing apparatus is in the digital reproduction mode.

36-40. (cancelled)

41. (withdrawn) A receiving apparatus for receiving a digital broadcasting signal constructed by a transport stream in which video data and audio data have been compressed and multiplexed, comprising:

a decoder for decoding said received digital broadcasting signal;

a digital interface for receiving a transport stream from an external reproducing apparatus having both analog and digital recording and reproducing modes;

a format converter circuit for outputting the decoded broadcasting signal from said receiving apparatus in a format for display on a monitor to a user; and

a display processing circuit for displaying control panel information for allowing station selection and recording and reproduction control of a program recorded on a recording medium loaded in said external reproducing apparatus by a predetermined format;

wherein when said external recording apparatus is in the digital recording mode, said format converter circuit displays the decoded broadcasting signal whether or not the control panel information is displayed; and

wherein when said external recording apparatus is in the analog recording mode, said display processing circuit prevents said format converter circuit from outputting the decoded broadcasting signal from said format converter circuit only during the displaying of said control panel information.

42. (withdrawn) An apparatus according to claim 41, wherein an alarm message is displayed to the user when said display processing circuit prevents the display of the received digital broadcasting signal to the user.

43. (withdrawn) An apparatus according to claim 42, wherein said alarm messages indicates that said external recording apparatus is under analog reproduction and that the digital broadcasting signal cannot be displayed.

44. (withdrawn) An apparatus according to claim 41, wherein the analog recording mode includes a stop mode, a recording pause mode and record mode.

45-51. (cancelled)

52. (currently amended) A receiving apparatus for receiving a digital broadcasting signal constructed by a transport stream in which video data and audio data have been compressed and multiplexed, comprising:

a decoder for decoding said received digital broadcasting signal;

a digital interface for receiving the transport stream from an external reproducing apparatus;

a CPU programmed for retrieving information associated with a program recorded on a recording medium loaded in said reproducing apparatus from a memory in said reproducing apparatus; and

a display processing circuit for displaying the information associated with the program recorded on the recording medium loaded in said reproducing apparatus by a predetermined format,

wherein the decoder is (i) for determining whether the transport stream corresponding to the program recorded on the recording medium reproduced by said reproducing apparatus and received through said digital interface is decodable by said decoder using a predetermined coding system used at the receiving apparatus to decode a transport stream, and (ii) for generating decodability data indicating a result of determining whether the transport stream corresponding to the program recorded on the recording medium reproduced by said reproducing apparatus and received through said digital interface is decodable by said decoder using the predetermined coding system;

wherein in the case where the decodability data indicates the transport stream corresponding to the program recorded on the recording medium reproduced by said reproducing apparatus and received through said digital interface is determined not able to be decoded in said decoder using the predetermined coding system, said display processing circuit performs a display process so as to display a message based on the decodability data and showing that the program recorded on the recording medium loaded in said reproducing apparatus is recorded in a recording mode in which said

transport stream corresponding to the program recorded on the recording medium reproduced by said reproducing apparatus and received through said digital interface cannot be decoded by said receiving apparatus using the predetermined coding system.

53. (withdrawn) A receiving apparatus for receiving a digital broadcasting signal constructed by a transport stream in which video data and audio data have been compressed and multiplexed, comprising:

a decoder for decoding said received digital broadcasting signal;

a digital interface for receiving the transport stream from an external reproducing apparatus, the external reproducing apparatus having both analog and digital recording and reproducing modes; and

a display processing circuit for displaying an alarm message during a recording mode of the external reproducing apparatus indicating that a new station of the digital broadcasting signal cannot be selected during display of a control panel normally allowing a user to select a new station, during (i) digital recording, and (ii) analog recording modes of stop, recording pause and record, by said external reproducing apparatus, the display processing circuit further displaying an alarm message upon attempted reproduction from the external recording apparatus, through the receiving apparatus, of a program recorded in the analog mode when the external reproducing apparatus is in the digital reproduction mode.

54-57. (cancelled).

58. (currently amended) A receiving apparatus for receiving a digital broadcasting signal constructed by a transport stream in

which video data and audio data have been compressed and multiplexed, comprising:

a decoder for decoding said received digital broadcasting signal;

a digital interface for receiving a transport stream from a reproducing apparatus; and

a display processing circuit for displaying information associated with a program recorded in a predetermined compression format on a recording medium loaded in said reproducing apparatus,

wherein the decoder is (i) for determining whether the transport stream corresponding to the program recorded on the recording medium reproduced by said reproducing apparatus and received through said digital interface is decodable by said decoder using a predetermined coding system used at the receiving apparatus to decode a transport stream, and (ii) for generating decodability data indicating a result of determining whether the transport stream corresponding to the program recorded on the recording medium reproduced by said reproducing apparatus and received through said digital interface is decodable by said decoder using the predetermined coding system;

wherein in the case where the decodability data indicates the transport stream corresponding to the program recorded on the recording medium reproduced by said reproducing apparatus and received through said digital interface is determined not able to be decoded in said decoder using the predetermined coding system, said display processing circuit performs a display process so as to display a message based on the decodability data and showing that the program recorded on the recording medium loaded in said reproducing apparatus is recorded in a compression mode in which said transport stream corresponding to the program recorded on the

recording medium reproduced by said reproducing apparatus and received through said digital interface cannot be decoded by said receiving apparatus using the predetermined coding system.

59. (previously presented) An apparatus according to claim 58, wherein said information associated with said program includes at least one of a channel number of the program, a program name, a genre, a date of the recording, and a recording time.

60. (previously presented) An apparatus according to claim 58, wherein said information associated with said program includes recording position information of the program on the recording medium.

61. (previously presented) An apparatus according to claim 58, wherein said information associated with said program is overlapped to a reproduction signal from said reproducing apparatus and displayed.

62. (previously presented) An apparatus according to claim 58, wherein said information associated with said program includes information of a recording mode of said recorded program.

63. (currently amended) A receiving apparatus for receiving a digital broadcasting signal constructed by a transport stream in which video data and audio data have been compressed and multiplexed, comprising:

a decoder for decoding said received digital broadcasting signal;

a digital interface for receiving the transport stream from an external reproducing apparatus; and

a display processing circuit for displaying information associated with a program recorded in a predetermined transport stream format on a recording medium loaded in said reproducing apparatus,

wherein the decoder is (i) for determining whether the transport stream corresponding to the program recorded on the recording medium reproduced by said reproducing apparatus and received through said digital interface is decodable by said decoder using a predetermined coding system used at the receiving apparatus to decode a transport stream, and, (ii) for generating decodability data indicating a result of determining whether the transport stream corresponding to the program recorded on the recording medium reproduced by said reproducing apparatus and received through said digital interface is decodable by said decoder using the predetermined coding system;

wherein in the case where the decodability data indicates the transport stream corresponding to the program recorded on the recording medium reproduced by said reproducing apparatus and received through said digital interface is determined not able to be decoded in said decoder using the predetermined coding system, said display processing circuit performs a display process so as to display a message based on the decodability data and indicating that the program recorded on the recording medium loaded in said reproducing apparatus is recorded in a format wherein said transport stream corresponding to the program recorded on the recording medium reproduced by said reproducing apparatus and received through said digital interface cannot be decoded by said receiving apparatus using the predetermined coding system.

64. (previously presented) An apparatus according to claim 63, wherein said information associated with said program includes at least one of a channel number of the program, a program name, a genre, a date of the recording, and a recording time.

65. (previously presented) An apparatus according to claim 63, wherein said information associated with said program includes recording position information of the program on the recording medium.

66. (previously presented) An apparatus according to claim 63, wherein said information associated with said program is overlapped to a reproduction signal from said reproducing apparatus and displayed.

67. (previously presented) An apparatus according to claim 63, wherein said information associated with said program includes information of a recording mode of said recorded program.

68. (withdrawn) A display method of recording program associated information in a receiving apparatus of a digital broadcasting, comprising:

receiving a digital broadcasting signal constructed by a transport stream in which video data and audio data have been compressed and multiplexed;

decoding said received digital broadcasting signal;

receiving a transport stream from an external reproducing apparatus through a digital interface and having both analog and digital recording and reproducing modes;

outputting the decoded broadcasting signal from said receiving apparatus by a format converter circuit within the receiving apparatus in a format for display on a monitor to a user;

displaying control panel information for allowing station selection and recording and reproduction control of a program recorded on a recording medium loaded in said external reproducing apparatus by a predetermined format;

wherein when said external recording apparatus is in the analog reproducing mode, the display of the decoded broadcasting signal to the user is prevented by the format converter circuit, and when said external recording apparatus is in the analog recording mode, the display of the decoded broadcasting signal is prevented only during the displaying of said control panel information by the format converter circuit; and

wherein when said external recording apparatus is in the digital recording mode, the digital broadcasting signal is displayed by the format converter circuit whether or not the control panel information is displayed.

69. (withdrawn) A display method of recording program associated information in a receiving apparatus of a digital broadcasting, comprising:

receiving a digital broadcasting signal constructed by a transport stream in which video data and audio data have been compressed and multiplexed;

decoding said received digital broadcasting signal;

receiving a transport stream from an external reproducing apparatus having both analog and digital recording and reproducing modes through a digital interface;

outputting the decoded broadcasting signal from said receiving apparatus by a format converter circuit within the receiving apparatus in a format for display on a monitor to a user;

displaying control panel information for allowing station selection and recording and reproduction control of a program recorded on a recording medium loaded in said external reproducing apparatus by a predetermined format;

wherein when said external recording apparatus is in the digital recording mode, the digital broadcasting signal is displayed by the format converter circuit whether or not the control panel information is displayed; and

wherein when said external recording apparatus is in the analog recording mode, the display of the decoded broadcasting signal is prevented only during the displaying of said control panel information by the format convert circuit.

70. (withdrawn) A method according to claim 69, wherein an alarm message is displayed to the user when the display of the received digital broadcasting signal to the user is prevented.

71. (cancelled)

72. (currently amended) A display method of recording program associated information in a receiving apparatus of a digital broadcasting, comprising:

receiving a digital broadcasting signal constructed by a transport stream in which video data and audio data have been compressed and multiplexed;

decoding said received digital broadcasting signal;

receiving the transport stream from an external reproducing apparatus through a digital interface;

reading out information associated with a program recorded on a recording medium loaded in said reproducing apparatus from a memory in said reproducing apparatus;

displaying the information associated with the program recorded on the recording medium loaded in said reproducing apparatus by a predetermined format;

determining whether the transport stream corresponding to the program recorded on the recording medium reproduced by said reproducing apparatus and received through the digital interface is decodable using a predetermined coding system used at the receiving apparatus to decode a transport stream; and

generating decodability data indicating a result of determining whether the transport stream corresponding to the program recorded on the recording medium reproduced by said reproducing apparatus and received through the digital interface is decodable using the predetermined coding system,

wherein in said displaying the information, when the decodability data indicates the transport stream corresponding to the program recorded on the recording medium reproduced in said reproducing apparatus and received through the digital interface is determined not able to be decodable using the predetermined coding system in said determining step, a display process is performed so as to display a message based on the decodability data and showing that the program recorded on the recording medium loaded in said reproducing apparatus is recorded in a recording mode in which the transport stream corresponding to the program recorded on the recording medium reproduced in said reproducing apparatus and

received through the digital interface cannot be decoded using the
predetermined coding system.